LEISTUNGSERKLÄRUNG

No. 001-2018-08-10

1. Identifikationscode des Produkttyps:
   EN 442-2 Stahlplattenheizkörper
2. Typ, Charge oder Seriennummer oder jedes andere Element, dass die Identifizierung des Bauprodukts ermöglicht:
   Type 10 Standard, Type 11 Standard, Type 21 (Thin) Standard, Type 22 Standard, Type 33 Standard, Type 11 Flat, Type 21 (Thin) Flat, Type 22 Flat, Type 33 Flat, Type 20 Vertical Flat, Type 11 Mid Connection, Type 21 (Thin) Mid Connection, Type 22 Mid Connection, Type 33 Mid Connection, Type 20 Vertical Mid Connection
3. Geplante Verwendung oder Verwendung des Bauprodukts gemäß der anwendbaren harmonisierten technischen Spezifikation, wie vom Hersteller vorgesehen:
   In Heizsystemen in Gebäuden
4. Name und Adresse des Herstellers:
   Alarko-Carrier Sanayi ve Ticaret A.Ş.
   Yukarı Dudullu Organize Sanayi Bölgesi, Esensehir Mahallesi, 3. Cadde, No:2 34760 Umraniye/Istanbul/Turkiye
5. Name und Anschrift des Bevollmächtigten:
   -
6. System oder Systeme zur Bewertung und Überprüfung der Leistungsbeständigkeit des Bauprodukts gemäß Anhang V:
   System 3
7. Notifizierte Stellen und Leistungskonformität
   Name und Identifikationsnummer der notifizerten Stellen
   Benannte Stelle: HLK Stuttgart GmbH, Pfaffenwaldring 6A, 70569 Stuttgart, Deutschland Labor ID: 0626
   Verwandter Testbericht: Type 10 Standard: B03 101.1686K1, Type 11 Standard: B07 111.2175K, Type 21 (Thin) Standard: B98.211.1206K1, Type 22 Standard: B07 221.2176K, Type 33 Standard: B00 331.1411K1, Type 11 Flat: B09 111.2295K1, Type 21 (Thin) Flat: B09 211.2296K1, Type 22 Flat: B09 221.2297K1, Type 33 Flat: B10 331.2343K, Type 20 Vertical Flat: B09 201.2323K, Type 11 Mid Connection: B12 111.2421K, Type 21 (Thin) Mid Connection: B12 211.2422K, Type 22 Mid Connection: B12 221.2423K, Type 33 Mid Connection: B12 331.2424K, Type 20 Vertical Mid Connection: B12.201.2420K
8. Im Falle der Leistungserklärung des Bauprodukts, für das eine Europäische Technische Bewertung ausgefüllt wurde:
   -
9. Erklärte Leistung:

Charakteristische	Leistung	Harmonisierte technische Spezifikation
Brandverhalten	A1	EN 442-1:2014
Freisetzung gefährlicher Stoffe	Keine	
Druckdichtheit	10 bar	
Oberflächentemperatur	Maximal 120 °C	
Druckfestigkeit	13 bar	
Nennwärmeleistung	Siehe Tabelle 1....15	
Wärmeleistung bei verschiedenen Betriebsbedienungen (Kennlinie)	Siehe Tabelle 1....15	
Korrosionsbeständigkeit	Keine Oberflächenkorrosion nach 100 h Feuchtigkeitsprüfung	
Beständigkeit gegen kleinere Stoßbeschädigungen	Class 0	

10. Die Leistung des unter den Nummern 1 und 2 genannten Produkts entspricht der in Punkt 9 angegebenen Leistung. Die Leistungserklärung wird unter der alleinigen Verantwortung des Herstellers gemäß Nummer 4 ausgestellt.

Unterschrieben für und im Auftrag des Herstellers von:

Name und Position: **Murat ÇOPUR – Vizepräsident - Fabriken**

Ort und Datum der Ausstellung: **Gebze, 18.01.2019**

Tabelle 1. Wärmeleistung und Kennlinie Kurve für Type 10, Standard

TYPE 10 Standard ($\phi = K_m \times \Delta T^n$)	Rad. Height H(mm)	THERMAL OUTPUT TABLE																				
		Radiator Length, L(mm)																				
		400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	2000	2200	2400	2600	2800	3000
Rated Thermal Output, ΔT: 30 ϕ_{30} [Watt]	300	66	82	98	115	131	148	164	180	197	213	230	246	262	279	295	328	361	394	426	459	492
	400	84	105	126	147	168	189	210	231	252	273	294	315	336	357	378	420	462	504	546	588	630
	500	102	128	153	179	204	230	255	281	306	332	357	383	408	434	459	510	561	612	663	714	765
	600	121	151	181	211	242	272	302	332	362	393	423	453	483	513	544	604	664	725	785	846	906
	750	148	186	223	260	297	334	371	408	445	482	519	557	594	631	668	742	816	890	965	1039	1113
	900	178	222	266	311	355	400	444	488	533	577	622	666	710	755	799	888	977	1066	1154	1243	1332
Rated Thermal Output, ΔT: 50 ϕ_{50} [Watt]	300	128	161	193	225	257	289	321	353	385	417	449	482	514	546	578	642	706	770	835	899	963
	400	163	204	245	286	326	367	408	449	490	530	571	612	653	694	734	816	898	979	1061	1142	1224
	500	198	248	297	347	396	446	495	545	594	644	693	743	792	842	891	990	1089	1188	1287	1386	1485
	600	233	292	350	408	466	525	583	641	700	758	816	875	933	991	1049	1166	1283	1399	1516	1632	1749
	750	288	360	431	503	575	647	719	791	863	935	1007	1079	1150	1222	1294	1438	1582	1726	1869	2013	2157
	900	345	431	517	603	690	776	862	948	1034	1121	1207	1293	1379	1465	1552	1724	1896	2069	2241	2414	2586
K_m	300	0,75833	0,94791	1,13749	1,32707	1,51666	1,70624	1,89582	2,08540	2,27498	2,46457	2,65415	2,84373	3,03331	3,22289	3,41248	3,79164	4,17080	4,54997	4,92913	5,30830	5,68746
	400	0,99411	1,24264	1,49116	1,73969	1,98822	2,23674	2,48527	2,73380	2,98232	3,23085	3,47938	3,72791	3,97643	4,22496	4,47349	4,97054	5,46759	5,96465	6,46170	6,95876	7,45581
	500	1,24346	1,55432	1,86518	2,17605	2,48691	2,79778	3,10864	3,41950	3,73037	4,04123	4,35210	4,66296	4,97382	5,28469	5,59555	6,21728	6,83901	7,46074	8,08246	8,70419	9,32592
	600	1,51048	1,88810	2,26572	2,64334	3,02096	3,39858	3,77620	4,15382	4,53144	4,90906	5,28668	5,66430	6,04192	6,41954	6,79716	7,55240	8,30764	9,06288	9,81812	10,57336	11,32860
	750	1,82604	2,28256	2,73907	3,19558	3,65209	4,10860	4,56511	5,02162	5,47813	5,93464	6,39115	6,84767	7,30418	7,76069	8,21720	9,13022	10,04324	10,95626	11,86929	12,78231	13,69533
	900	2,14682	2,68352	3,22022	3,75693	4,29363	4,83034	5,36704	5,90374	6,44045	6,97715	7,51386	8,05056	8,58726	9,12397	9,66067	10,73408	11,80749	12,88090	13,95430	15,02771	16,10112
n	300	1,3118	1,3118	1,3118	1,3118	1,3118	1,3118	1,3118	1,3118	1,3118	1,3118	1,3118	1,3118	1,3118	1,3118	1,3118	1,3118	1,3118	1,3118	1,3118	1,3118	1,3118
	400	1,3039	1,3039	1,3039	1,3039	1,3039	1,3039	1,3039	1,3039	1,3039	1,3039	1,3039	1,3039	1,3039	1,3039	1,3039	1,3039	1,3039	1,3039	1,3039	1,3039	1,3039
	500	1,2961	1,2961	1,2961	1,2961	1,2961	1,2961	1,2961	1,2961	1,2961	1,2961	1,2961	1,2961	1,2961	1,2961	1,2961	1,2961	1,2961	1,2961	1,2961	1,2961	1,2961
	600	1,2882	1,2882	1,2882	1,2882	1,2882	1,2882	1,2882	1,2882	1,2882	1,2882	1,2882	1,2882	1,2882	1,2882	1,2882	1,2882	1,2882	1,2882	1,2882	1,2882	1,2882
	750	1,2933	1,2933	1,2933	1,2933	1,2933	1,2933	1,2933	1,2933	1,2933	1,2933	1,2933	1,2933	1,2933	1,2933	1,2933	1,2933	1,2933	1,2933	1,2933	1,2933	1,2933
	900	1,2983	1,2983	1,2983	1,2983	1,2983	1,2983	1,2983	1,2983	1,2983	1,2983	1,2983	1,2983	1,2983	1,2983	1,2983	1,2983	1,2983	1,2983	1,2983	1,2983	1,2983

Tabelle 2. Wärmeleistung und Kennlinie Kurve für Type 11, Standard

TYPE 11 Standard ($\phi = K_m \times \Delta T^n$)	Rad. Height H(mm)	THERMAL OUTPUT TABLE																				
		Radiator Length, L(mm)																				
		400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	2000	2200	2400	2600	2800	3000
Rated Thermal Output, ΔT: 30 ϕ_{30} [Watt]	300	110	138	166	193	221	248	276	304	331	359	386	414	442	469	497	552	607	662	718	773	828
	400	141	176	211	246	282	317	352	387	422	458	493	528	563	598	634	704	774	845	915	986	1056
	500	170	212	254	297	339	382	424	466	509	551	594	636	678	721	763	848	933	1018	1102	1187	1272
	600	197	246	295	344	394	443	492	541	590	640	689	738	787	836	886	984	1082	1181	1279	1378	1476
	750	236	295	354	413	472	531	590	649	708	767	826	885	944	1003	1062	1180	1298	1416	1534	1652	1770
	900	273	341	409	477	546	614	682	750	818	887	955	1023	1091	1159	1228	1364	1500	1637	1773	1910	2046
Rated Thermal Output, ΔT: 50 ϕ_{50} [Watt]	300	213	267	320	373	426	480	533	586	640	693	746	800	853	906	959	1066	1173	1279	1386	1492	1599
	400	272	341	409	477	545	613	681	749	817	885	953	1022	1090	1158	1226	1362	1498	1634	1771	1907	2043
	500	329	411	493	575	658	740	822	904	986	1069	1151	1233	1315	1397	1480	1644	1808	1973	2137	2302	2466
	600	383	479	575	671	766	862	958	1054	1150	1245	1341	1437	1533	1629	1724	1916	2108	2299	2491	2682	2874
	750	461	576	691	806	922	1037	1152	1267	1382	1498	1613	1728	1843	1958	2074	2304	2534	2765	2995	3226	3456
	900	534	668	801	935	1068	1202	1335	1469	1602	1736	1869	2003	2136	2270	2403	2670	2937	3204	3471	3738	4005
K_m	300	1,38626	1,73283	2,07940	2,42596	2,77253	3,11909	3,46566	3,81223	4,15879	4,50536	4,85192	5,19849	5,54506	5,89162	6,23819	6,93132	7,62445	8,31758	9,01072	9,70385	10,39698
	400	1,73274	2,16593	2,59912	3,03230	3,46549	3,89867	4,33186	4,76505	5,19823	5,63142	6,06460	6,49779	6,93098	7,36416	7,79735	8,66372	9,53009	10,39646	11,26284	12,12921	12,99558
	500	2,04556	2,55696	3,06835	3,57974	4,09113	4,60252	5,11391	5,62530	6,13669	6,64808	7,15947	7,67087	8,18226	8,69365	9,20504	10,22782	11,25060	12,27338	13,29617	14,31895	15,34173
	600	2,32920	2,91151	3,49381	4,07611	4,65841	5,24071	5,82301	6,40531	6,98761	7,56991	8,15221	8,73452	9,31682	9,89912	10,48142	11,64602	12,81062	13,97522	15,13983	16,30443	17,46903
	750	2,73817	3,42271	4,10725	4,79179	5,47634	6,16088	6,84542	7,52996	8,21450	8,89905	9,58359	10,26813	10,95267	11,63721	12,32176	13,69084	15,05992	16,42901	17,79809	19,16718	20,53626
	900	3,10472	3,88091	4,65709	5,43327	6,20945	6,98563	7,76181	8,53799	9,31417	10,09035	10,86653	11,64272	12,41890	13,19508	13,97126	15,52362	17,07598	18,62834	20,18071	21,73307	23,28543
n	300	1,2870	1,2870	1,2870	1,2870	1,2870	1,2870	1,2870	1,2870	1,2870	1,2870	1,2870	1,2870	1,2870	1,2870	1,2870	1,2870	1,2870	1,2870	1,2870	1,2870	1,2870
	400	1,2928	1,2928	1,2928	1,2928	1,2928	1,2928	1,2928	1,2928	1,2928	1,2928	1,2928	1,2928	1,2928	1,2928	1,2928	1,2928	1,2928	1,2928	1,2928	1,2928	1,2928
	500	1,2986	1,2986	1,2986	1,2986	1,2986	1,2986	1,2986	1,2986	1,2986	1,2986	1,2986	1,2986	1,2986	1,2986	1,2986	1,2986	1,2986	1,2986	1,2986	1,2986	1,2986
	600	1,3044	1,3044	1,3044	1,3044	1,3044	1,3044	1,3044	1,3044	1,3044	1,3044	1,3044	1,3044	1,3044	1,3044	1,3044	1,3044	1,3044	1,3044	1,3044	1,3044	1,3044
	750	1,3102	1,3102	1,3102	1,3102	1,3102	1,3102	1,3102	1,3102	1,3102	1,3102	1,3102	1,3102	1,3102	1,3102	1,3102	1,3102	1,3102	1,3102	1,3102	1,3102	1,3102
	900	1,3159	1,3159	1,3159	1,3159	1,3159	1,3159	1,3159	1,3159	1,3159	1,3159	1,3159	1,3159	1,3159	1,3159	1,3159	1,3159	1,3159	1,3159	1,3159	1,3159	1,3159

Tabelle 3. Wärmeleistung und Kennlinie Kurve für Type 21 (Thin), Standard

TYPE 21 (Thin) Standard ($\phi = K_m \times \Delta T^n$)	Rad. Height H(mm)	THERMAL OUTPUT TABLE																				
		Radiator Length, L(mm)																				
		400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	2000	2200	2400	2600	2800	3000
Rated Thermal Output, ΔT: 30 Φ_{30} [Watt]	300	152	191	229	267	305	343	381	419	457	495	533	572	610	648	686	762	838	914	991	1067	1143
	400	194	242	290	339	387	436	484	532	581	629	678	726	774	823	871	968	1065	1162	1258	1355	1452
	500	231	289	347	405	462	520	578	636	694	751	809	867	925	983	1040	1156	1272	1387	1503	1618	1734
	600	266	332	398	465	531	598	664	730	797	863	930	996	1062	1129	1195	1328	1461	1594	1726	1859	1992
	750	314	393	471	550	628	707	785	864	942	1021	1099	1178	1256	1335	1413	1570	1727	1884	2041	2198	2355
	900	358	447	536	626	715	805	894	983	1073	1162	1252	1341	1430	1520	1609	1788	1967	2146	2324	2503	2682
Rated Thermal Output, ΔT: 50 Φ_{50} [Watt]	300	295	369	443	517	590	664	738	812	886	959	1033	1107	1181	1255	1328	1476	1624	1771	1919	2066	2214
	400	377	471	565	659	754	848	942	1036	1130	1225	1319	1413	1507	1601	1696	1884	2072	2261	2449	2638	2826
	500	453	566	679	792	906	1019	1132	1245	1358	1472	1585	1698	1811	1924	2038	2264	2490	2717	2943	3170	3396
	600	524	655	785	916	1047	1178	1309	1440	1571	1702	1833	1964	2094	2225	2356	2618	2880	3142	3403	3665	3927
	750	621	776	931	1086	1242	1397	1552	1707	1862	2018	2173	2328	2483	2638	2794	3104	3414	3725	4035	4346	4656
	900	709	886	1063	1240	1418	1595	1772	1949	2126	2304	2481	2658	2835	3012	3190	3544	3898	4253	4607	4962	5316
K_m	300	1,87944	2,34930	2,81915	3,28901	3,75887	4,22873	4,69859	5,16845	5,63831	6,10817	6,57803	7,04789	7,51774	7,98760	8,45746	9,39718	10,33690	11,27662	12,21633	13,15605	14,09577
	400	2,28715	2,85894	3,43073	4,00252	4,57430	5,14609	5,71788	6,28967	6,86146	7,43324	8,00503	8,57682	9,14861	9,72040	10,29218	11,43576	12,57934	13,72291	14,86649	16,01006	17,15364
	500	2,62140	3,27675	3,93209	4,58744	5,24279	5,89814	6,55349	7,20884	7,86419	8,51954	9,17489	9,83024	10,48558	11,14093	11,79628	13,10698	14,41768	15,72838	17,03907	18,34977	19,66047
	600	2,89000	3,61251	4,33501	5,05751	5,78001	6,50251	7,22501	7,94751	8,67001	9,39251	10,11501	10,83752	11,56002	12,28252	13,00502	14,45002	15,89502	17,34002	18,78503	20,23003	21,67503
	750	3,35356	4,19196	5,03035	5,86874	6,70713	7,54552	8,38391	9,22230	10,06069	10,89908	11,73747	12,57587	13,41426	14,25265	15,09104	16,76782	18,44460	20,12138	21,79817	23,47495	25,15173
	900	3,74744	4,68430	5,62115	6,55801	7,49487	8,43173	9,36859	10,30545	11,24231	12,17917	13,11603	14,05289	14,98974	15,92660	16,86346	18,73718	20,61090	22,48462	24,35833	26,23205	28,10577
n	300	1,2926	1,2926	1,2926	1,2926	1,2926	1,2926	1,2926	1,2926	1,2926	1,2926	1,2926	1,2926	1,2926	1,2926	1,2926	1,2926	1,2926	1,2926	1,2926	1,2926	1,2926
	400	1,3048	1,3048	1,3048	1,3048	1,3048	1,3048	1,3048	1,3048	1,3048	1,3048	1,3048	1,3048	1,3048	1,3048	1,3048	1,3048	1,3048	1,3048	1,3048	1,3048	1,3048
	500	1,3169	1,3169	1,3169	1,3169	1,3169	1,3169	1,3169	1,3169	1,3169	1,3169	1,3169	1,3169	1,3169	1,3169	1,3169	1,3169	1,3169	1,3169	1,3169	1,3169	1,3169
	600	1,3291	1,3291	1,3291	1,3291	1,3291	1,3291	1,3291	1,3291	1,3291	1,3291	1,3291	1,3291	1,3291	1,3291	1,3291	1,3291	1,3291	1,3291	1,3291	1,3291	1,3291
	750	1,3346	1,3346	1,3346	1,3346	1,3346	1,3346	1,3346	1,3346	1,3346	1,3346	1,3346	1,3346	1,3346	1,3346	1,3346	1,3346	1,3346	1,3346	1,3346	1,3346	1,3346
	900	1,3401	1,3401	1,3401	1,3401	1,3401	1,3401	1,3401	1,3401	1,3401	1,3401	1,3401	1,3401	1,3401	1,3401	1,3401	1,3401	1,3401	1,3401	1,3401	1,3401	1,3401

Tabelle 4. Wärmeleistung und Kennlinie Kurve für Type 22, Standard

TYPE 22 Standard ($\Phi = K_m \times \Delta T^n$)	Rad. Height H(mm)	THERMAL OUTPUT TABLE																				
		Radiator Length, L(mm)																				
		400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	2000	2200	2400	2600	2800	3000
Rated Thermal Output, ΔT: 30 Φ_{30} [Watt]	300	196	245	293	342	391	440	489	538	587	636	685	734	782	831	880	978	1076	1174	1271	1369	1467
	400	252	315	377	440	503	566	629	692	755	818	881	944	1006	1069	1132	1258	1384	1510	1635	1761	1887
	500	306	383	459	536	612	689	765	842	918	995	1071	1148	1224	1301	1377	1530	1683	1836	1989	2142	2295
	600	359	449	538	628	718	807	897	987	1076	1166	1256	1346	1435	1525	1615	1794	1973	2153	2332	2512	2691
	750	430	538	646	753	861	968	1076	1184	1291	1399	1506	1614	1722	1829	1937	2152	2367	2582	2798	3013	3228
	900	498	623	747	872	996	1121	1245	1370	1494	1619	1743	1868	1992	2117	2241	2490	2739	2988	3237	3486	3735
Rated Thermal Output, ΔT: 50 Φ_{50} [Watt]	300	395	494	593	692	790	889	988	1087	1186	1284	1383	1482	1581	1680	1778	1976	2174	2371	2569	2766	2964
	400	505	632	758	884	1010	1137	1263	1389	1516	1642	1768	1895	2021	2147	2273	2526	2779	3031	3284	3536	3789
	500	610	762	914	1067	1219	1372	1524	1676	1829	1981	2134	2286	2438	2591	2743	3048	3353	3658	3962	4267	4572
	600	710	888	1065	1243	1420	1598	1775	1953	2130	2308	2485	2663	2840	3018	3195	3550	3905	4260	4615	4970	5325
	750	853	1067	1280	1493	1706	1920	2133	2346	2560	2773	2986	3200	3413	3626	3839	4266	4693	5119	5546	5972	6399
	900	989	1237	1484	1731	1978	2226	2473	2720	2968	3215	3462	3710	3957	4204	4451	4946	5441	5935	6430	6924	7419
K_m	300	1,79726	2,24657	2,69588	3,14520	3,59451	4,04383	4,49314	4,94245	5,39177	5,84108	6,29040	6,73971	7,18902	7,63834	8,08765	8,98628	9,88491	10,78354	11,68216	12,58079	13,47942
	400	2,42855	3,03569	3,64283	4,24997	4,85710	5,46424	6,07138	6,67852	7,28566	7,89279	8,49993	9,10707	9,71421	10,32135	10,92848	12,14276	13,35704	14,57131	15,78559	16,99986	18,21414
	500	3,10007	3,87509	4,65010	5,42512	6,20014	6,97515	7,75017	8,52519	9,30020	10,07522	10,85024	11,62526	12,40027	13,17529	13,95031	15,50034	17,05037	18,60041	20,15044	21,70048	23,25051
	600	3,81739	4,77174	5,72609	6,68044	7,63478	8,58913	9,54348	10,49783	11,45218	12,40652	13,36087	14,31522	15,26957	16,22392	17,17826	19,08696	20,99566	22,90435	24,81305	26,72174	28,63044
	750	4,52136	5,65170	6,78203	7,91237	9,04271	10,17305	11,30339	12,43373	13,56407	14,69441	15,82475	16,95509	18,08542	19,21576	20,34610	22,60678	24,86746	27,12814	29,38881	31,64949	33,91017
	900	5,16583	6,45729	7,74875	9,04021	10,33166	11,62312	12,91458	14,20604	15,49750	16,78895	18,08041	19,37187	20,66333	21,95479	23,24624	25,82916	28,41208	30,99499	33,57791	36,16082	38,74374
n	300	1,3787	1,3787	1,3787	1,3787	1,3787	1,3787	1,3787	1,3787	1,3787	1,3787	1,3787	1,3787	1,3787	1,3787	1,3787	1,3787	1,3787	1,3787	1,3787	1,3787	1,3787
	400	1,3644	1,3644	1,3644	1,3644	1,3644	1,3644	1,3644	1,3644	1,3644	1,3644	1,3644	1,3644	1,3644	1,3644	1,3644	1,3644	1,3644	1,3644	1,3644	1,3644	1,3644
	500	1,3501	1,3501	1,3501	1,3501	1,3501	1,3501	1,3501	1,3501	1,3501	1,3501	1,3501	1,3501	1,3501	1,3501	1,3501	1,3501	1,3501	1,3501	1,3501	1,3501	1,3501
	600	1,3358	1,3358	1,3358	1,3358	1,3358	1,3358	1,3358	1,3358	1,3358	1,3358	1,3358	1,3358	1,3358	1,3358	1,3358	1,3358	1,3358	1,3358	1,3358	1,3358	1,3358
	750	1,3396	1,3396	1,3396	1,3396	1,3396	1,3396	1,3396	1,3396	1,3396	1,3396	1,3396	1,3396	1,3396	1,3396	1,3396	1,3396	1,3396	1,3396	1,3396	1,3396	1,3396
	900	1,3433	1,3433	1,3433	1,3433	1,3433	1,3433	1,3433	1,3433	1,3433	1,3433	1,3433	1,3433	1,3433	1,3433	1,3433	1,3433	1,3433	1,3433	1,3433	1,3433	1,3433

Tabelle 5. Wärmeleistung und Kennlinie Kurve für Type 33, Standard

TYPE 33 Standard ($\phi = K_m \times \Delta T^n$)	Rad. Height H(mm)	THERMAL OUTPUT TABLE																				
		Radiator Length, L(mm)																				
		400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	2000	2200	2400	2600	2800	3000
Rated Thermal Output, ΔT: 30 ϕ_{30} [Watt]	300	298	373	447	522	596	671	745	820	894	969	1043	1118	1192	1267	1341	1490	1639	1788	1937	2086	2235
	400	376	470	564	658	752	846	940	1034	1128	1222	1316	1410	1504	1598	1692	1880	2068	2256	2444	2632	2820
	500	448	561	673	785	897	1009	1121	1233	1345	1457	1569	1682	1794	1906	2018	2242	2466	2690	2915	3139	3363
	600	516	646	775	904	1033	1162	1291	1420	1549	1678	1807	1937	2066	2195	2324	2582	2840	3098	3357	3615	3873
	750	610	763	916	1068	1221	1373	1526	1679	1831	1984	2136	2289	2442	2594	2747	3052	3357	3662	3968	4273	4578
	900	696	871	1045	1219	1393	1567	1741	1915	2089	2263	2437	2612	2786	2960	3134	3482	3830	4178	4527	4875	5223
Rated Thermal Output, ΔT: 50 ϕ_{50} [Watt]	300	578	723	868	1012	1157	1301	1446	1591	1735	1880	2024	2169	2314	2458	2603	2892	3181	3470	3760	4049	4338
	400	733	917	1100	1283	1466	1650	1833	2016	2200	2383	2566	2750	2933	3116	3299	3666	4033	4399	4766	5132	5499
	500	878	1098	1318	1537	1757	1976	2196	2416	2635	2855	3074	3294	3514	3733	3953	4392	4831	5270	5710	6149	6588
	600	1016	1271	1525	1779	2033	2287	2541	2795	3049	3303	3557	3812	4066	4320	4574	5082	5590	6098	6607	7115	7623
	750	1210	1513	1816	2118	2421	2723	3026	3329	3631	3934	4236	4539	4842	5144	5447	6052	6657	7262	7868	8473	9078
	900	1391	1739	2087	2435	2782	3130	3478	3826	4174	4521	4869	5217	5565	5913	6260	6956	7652	8347	9043	9738	10434
K_m	300	3,58440	4,48051	5,37661	6,27271	7,16881	8,06491	8,96101	9,85711	10,75321	11,64931	12,54541	13,44152	14,33762	15,23372	16,12982	17,92202	19,71422	21,50642	23,29863	25,09083	26,88303
	400	4,39339	5,49174	6,59009	7,68844	8,78678	9,88513	10,98348	12,08183	13,18018	14,27852	15,37687	16,47522	17,57357	18,67192	19,77026	21,96696	24,16366	26,36035	28,55705	30,75374	32,95044
	500	5,09130	6,36412	7,63694	8,90977	10,18259	11,45542	12,72824	14,00106	15,27389	16,54671	17,81954	19,09236	20,36518	21,63801	22,91083	25,45648	28,00213	30,54778	33,09342	35,63907	38,18472
	600	5,69626	7,12032	8,54438	9,96845	11,39251	12,81658	14,24064	15,66470	17,08877	18,51283	19,93690	21,36096	22,78502	24,20909	25,63315	28,48128	31,32941	34,17754	37,02566	39,87379	42,72192
	750	6,39940	7,99925	9,59910	11,19895	12,79880	14,39865	15,99850	17,59835	19,19820	20,79805	22,39790	23,99775	25,59760	27,19745	28,79730	31,99700	35,19670	38,39640	41,59610	44,79580	47,99550
	900	6,93881	8,67352	10,40822	12,14292	13,87762	15,61233	17,34703	19,08173	20,81644	22,55114	24,28584	26,02055	27,75525	29,48995	31,22465	34,69406	38,16347	41,63287	45,10228	48,57168	52,04109
n	300	1,2995	1,2995	1,2995	1,2995	1,2995	1,2995	1,2995	1,2995	1,2995	1,2995	1,2995	1,2995	1,2995	1,2995	1,2995	1,2995	1,2995	1,2995	1,2995	1,2995	1,2995
	400	1,3081	1,3081	1,3081	1,3081	1,3081	1,3081	1,3081	1,3081	1,3081	1,3081	1,3081	1,3081	1,3081	1,3081	1,3081	1,3081	1,3081	1,3081	1,3081	1,3081	1,3081
	500	1,3166	1,3166	1,3166	1,3166	1,3166	1,3166	1,3166	1,3166	1,3166	1,3166	1,3166	1,3166	1,3166	1,3166	1,3166	1,3166	1,3166	1,3166	1,3166	1,3166	1,3166
	600	1,3252	1,3252	1,3252	1,3252	1,3252	1,3252	1,3252	1,3252	1,3252	1,3252	1,3252	1,3252	1,3252	1,3252	1,3252	1,3252	1,3252	1,3252	1,3252	1,3252	1,3252
	750	1,3401	1,3401	1,3401	1,3401	1,3401	1,3401	1,3401	1,3401	1,3401	1,3401	1,3401	1,3401	1,3401	1,3401	1,3401	1,3401	1,3401	1,3401	1,3401	1,3401	1,3401
	900	1,3550	1,3550	1,3550	1,3550	1,3550	1,3550	1,3550	1,3550	1,3550	1,3550	1,3550	1,3550	1,3550	1,3550	1,3550	1,3550	1,3550	1,3550	1,3550	1,3550	1,3550

Tabelle 6. Wärmeleistung und Kennlinie Kurve für Type 11, Flat

TYPE 11 Flat ($\phi = K_m \times \Delta T^n$)	Rad. Height H(mm)	THERMAL OUTPUT TABLE – Radiator Length, L(mm)																				
		400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	2000	2200	2400	2600	2800	3000
Rated Thermal Output, ΔT: 30 Φ_{30} [Watt]	300	108	135	161	188	215	242	269	296	323	350	377	404	430	457	484	538	592	646	699	753	807
	400	135	169	202	236	270	303	337	371	404	438	472	506	539	573	607	674	741	809	876	944	1011
	500	161	201	241	281	322	362	402	442	482	523	563	603	643	683	724	804	884	965	1045	1126	1206
	600	184	230	275	321	367	413	459	505	551	597	643	689	734	780	826	918	1010	1102	1193	1285	1377
	750	215	269	322	376	430	483	537	591	644	698	752	806	859	913	967	1074	1181	1289	1396	1504	1611
	900	245	306	367	428	490	551	612	673	734	796	857	918	979	1040	1102	1224	1346	1469	1591	1714	1836
Rated Thermal Output, ΔT: 50 Φ_{50} [Watt]	300	206	258	310	361	413	464	516	568	619	671	722	774	826	877	929	1032	1135	1238	1342	1445	1548
	400	258	323	387	452	516	581	645	710	774	839	903	968	1032	1097	1161	1290	1419	1548	1677	1806	1935
	500	308	385	461	538	615	692	769	846	923	1000	1077	1154	1230	1307	1384	1538	1692	1846	1999	2153	2307
	600	355	444	533	622	710	799	888	977	1066	1154	1243	1332	1421	1510	1598	1776	1954	2131	2309	2486	2664
	750	416	521	625	729	833	937	1041	1145	1249	1353	1457	1562	1666	1770	1874	2082	2290	2498	2707	2915	3123
	900	476	595	713	832	951	1070	1189	1308	1427	1546	1665	1784	1902	2021	2140	2378	2616	2854	3091	3329	3567
K_m	300	1,40829	1,76037	2,11244	2,46451	2,81658	3,16866	3,52073	3,87280	4,22488	4,57695	4,92902	5,28110	5,63317	5,98524	6,33731	7,04146	7,74561	8,44975	9,15390	9,85804	10,56219
	400	1,77767	2,22209	2,66650	3,11092	3,55534	3,99975	4,44417	4,88859	5,33300	5,77742	6,22184	6,66626	7,11067	7,55509	7,99951	8,88834	9,77717	10,66601	11,55484	12,44368	13,33251
	500	2,14025	2,67531	3,21037	3,74543	4,28050	4,81556	5,35062	5,88568	6,42074	6,95581	7,49087	8,02593	8,56099	9,09605	9,63112	10,70124	11,77136	12,84149	13,91161	14,98174	16,05186
	600	2,25261	2,81576	3,37891	3,94206	4,50522	5,06837	5,63152	6,19467	6,75782	7,32098	7,88413	8,44728	9,01043	9,57358	10,13674	11,26304	12,38934	13,51565	14,64195	15,76826	16,89456
	750	2,61298	3,26623	3,91947	4,57272	5,22596	5,87921	6,53245	7,18570	7,83894	8,49219	9,14543	9,79868	10,45192	11,10517	11,75841	13,06490	14,37139	15,67788	16,98437	18,29086	19,59735
	900	2,95427	3,69284	4,43140	5,16997	5,90854	6,64710	7,38567	8,12424	8,86280	9,60137	10,33994	11,07851	11,81707	12,55564	13,29421	14,77134	16,24847	17,72561	19,20274	20,67988	22,15701
n	300	1,2749	1,2749	1,2749	1,2749	1,2749	1,2749	1,2749	1,2749	1,2749	1,2749	1,2749	1,2749	1,2749	1,2749	1,2749	1,2749	1,2749	1,2749	1,2749	1,2749	1,2749
	400	1,2724	1,2724	1,2724	1,2724	1,2724	1,2724	1,2724	1,2724	1,2724	1,2724	1,2724	1,2724	1,2724	1,2724	1,2724	1,2724	1,2724	1,2724	1,2724	1,2724	1,2724
	500	1,2699	1,2699	1,2699	1,2699	1,2699	1,2699	1,2699	1,2699	1,2699	1,2699	1,2699	1,2699	1,2699	1,2699	1,2699	1,2699	1,2699	1,2699	1,2699	1,2699	1,2699
	600	1,2936	1,2936	1,2936	1,2936	1,2936	1,2936	1,2936	1,2936	1,2936	1,2936	1,2936	1,2936	1,2936	1,2936	1,2936	1,2936	1,2936	1,2936	1,2936	1,2936	1,2936
	750	1,2963	1,2963	1,2963	1,2963	1,2963	1,2963	1,2963	1,2963	1,2963	1,2963	1,2963	1,2963	1,2963	1,2963	1,2963	1,2963	1,2963	1,2963	1,2963	1,2963	1,2963
	900	1,2989	1,2989	1,2989	1,2989	1,2989	1,2989	1,2989	1,2989	1,2989	1,2989	1,2989	1,2989	1,2989	1,2989	1,2989	1,2989	1,2989	1,2989	1,2989	1,2989	1,2989

Tabelle 7. Wärmeleistung und Kennlinie Kurve für Type 21 (Thin), Flat

TYPE 21 (Thin) Flat ($\phi = K_m \times \Delta T^n$)	Rad. Height H(mm)	THERMAL OUTPUT TABLE																				
		Radiator Length, L(mm)																				
		400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	2000	2200	2400	2600	2800	3000
Rated Thermal Output, ΔT: 30 ϕ_{30} [Watt]	300	147	184	221	258	294	331	368	405	442	478	515	552	589	626	662	736	810	883	957	1030	1104
	400	186	233	280	326	373	419	466	513	559	606	652	699	746	792	839	932	1025	1118	1212	1305	1398
	500	222	278	334	389	445	500	556	612	667	723	778	834	890	945	1001	1112	1223	1334	1446	1557	1668
	600	252	315	378	441	504	567	630	693	756	819	882	945	1008	1071	1134	1260	1386	1512	1638	1764	1890
	750	297	372	446	520	594	669	743	817	892	966	1040	1115	1189	1263	1337	1486	1635	1783	1932	2080	2229
	900	337	421	505	589	674	758	842	926	1010	1095	1179	1263	1347	1431	1516	1684	1852	2021	2189	2358	2526
Rated Thermal Output, ΔT: 50 ϕ_{50} [Watt]	300	285	356	427	498	570	641	712	783	854	926	997	1068	1139	1210	1282	1424	1566	1709	1851	1994	2136
	400	361	452	542	632	722	813	903	993	1084	1174	1264	1355	1445	1535	1625	1806	1987	2167	2348	2528	2709
	500	432	540	648	756	864	972	1080	1188	1296	1404	1512	1620	1728	1836	1944	2160	2376	2592	2808	3024	3240
	600	498	623	747	872	996	1121	1245	1370	1494	1619	1743	1868	1992	2117	2241	2490	2739	2988	3237	3486	3735
	750	581	727	872	1017	1162	1308	1453	1598	1744	1889	2034	2180	2325	2470	2615	2906	3197	3487	3778	4068	4359
	900	651	814	977	1140	1302	1465	1628	1791	1954	2116	2279	2442	2605	2768	2930	3256	3582	3907	4233	4558	4884
K_m	300	1,80050	2,25063	2,70075	3,15088	3,60100	4,05113	4,50125	4,95138	5,40150	5,85163	6,30175	6,75188	7,20200	7,65213	8,10225	9,00250	9,90275	10,80300	11,70325	12,60350	13,50375
	400	2,26128	2,82660	3,39191	3,95723	4,52255	5,08787	5,65319	6,21851	6,78383	7,34915	7,91447	8,47979	9,04510	9,61042	10,17574	11,30638	12,43702	13,56766	14,69829	15,82893	16,95957
	500	2,67820	3,34775	4,01729	4,68684	5,35639	6,02594	6,69549	7,36504	8,03459	8,70414	9,37369	10,04324	10,71278	11,38233	12,05188	13,39098	14,73008	16,06918	17,40827	18,74737	20,08647
	600	2,71345	3,39181	4,07017	4,74853	5,42690	6,10526	6,78362	7,46198	8,14034	8,81871	9,49707	10,17543	10,85379	11,53215	12,21052	13,56724	14,92396	16,28069	17,63741	18,99414	20,35086
	750	3,43255	4,29069	5,14882	6,00696	6,86510	7,72323	8,58137	9,43951	10,29764	11,15578	12,01392	12,87206	13,73019	14,58833	15,44647	17,16274	18,87901	20,59529	22,31156	24,02784	25,74411
	900	4,16874	5,21092	6,25310	7,29529	8,33747	9,37966	10,42184	11,46402	12,50621	13,54839	14,59058	15,63276	16,67494	17,71713	18,75931	20,84368	22,92805	25,01242	27,09678	29,18115	31,26552
n	300	1,2944	1,2944	1,2944	1,2944	1,2944	1,2944	1,2944	1,2944	1,2944	1,2944	1,2944	1,2944	1,2944	1,2944	1,2944	1,2944	1,2944	1,2944	1,2944	1,2944	1,2944
	400	1,2969	1,2969	1,2969	1,2969	1,2969	1,2969	1,2969	1,2969	1,2969	1,2969	1,2969	1,2969	1,2969	1,2969	1,2969	1,2969	1,2969	1,2969	1,2969	1,2969	1,2969
	500	1,2994	1,2994	1,2994	1,2994	1,2994	1,2994	1,2994	1,2994	1,2994	1,2994	1,2994	1,2994	1,2994	1,2994	1,2994	1,2994	1,2994	1,2994	1,2994	1,2994	1,2994
	600	1,3324	1,3324	1,3324	1,3324	1,3324	1,3324	1,3324	1,3324	1,3324	1,3324	1,3324	1,3324	1,3324	1,3324	1,3324	1,3324	1,3324	1,3324	1,3324	1,3324	1,3324
	750	1,3118	1,3118	1,3118	1,3118	1,3118	1,3118	1,3118	1,3118	1,3118	1,3118	1,3118	1,3118	1,3118	1,3118	1,3118	1,3118	1,3118	1,3118	1,3118	1,3118	1,3118
	900	1,2912	1,2912	1,2912	1,2912	1,2912	1,2912	1,2912	1,2912	1,2912	1,2912	1,2912	1,2912	1,2912	1,2912	1,2912	1,2912	1,2912	1,2912	1,2912	1,2912	1,2912

Tabelle 8. Wärmeleistung und Kennlinie Kurve für Type 22, Flat

TYPE 22 Flat ($\phi = K_m \times \Delta T^n$)	Rad. Height H(mm)	THERMAL OUTPUT TABLE																				
		Radiator Length, L(mm)																				
		400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	2000	2200	2400	2600	2800	3000
Rated Thermal Output, ΔT: 30 ϕ_{30} [Watt]	300	198	248	298	347	397	446	496	546	595	645	694	744	794	843	893	992	1091	1190	1290	1389	1488
	400	251	314	377	440	502	565	628	691	754	816	879	942	1005	1068	1130	1256	1382	1507	1633	1758	1884
	500	302	377	452	528	603	679	754	829	905	980	1056	1131	1206	1282	1357	1508	1659	1810	1960	2111	2262
	600	349	437	524	611	698	786	873	960	1048	1135	1222	1310	1397	1484	1571	1746	1921	2095	2270	2444	2619
	750	413	516	619	722	826	929	1032	1135	1238	1342	1445	1548	1651	1754	1858	2064	2270	2477	2683	2890	3096
	900	474	593	711	830	948	1067	1185	1304	1422	1541	1659	1778	1896	2015	2133	2370	2607	2844	3081	3318	3555
Rated Thermal Output, ΔT: 50 ϕ_{50} [Watt]	300	382	477	572	668	763	859	954	1049	1145	1240	1336	1431	1526	1622	1717	1908	2099	2290	2480	2671	2862
	400	485	607	728	849	970	1092	1213	1334	1456	1577	1698	1820	1941	2062	2183	2426	2669	2911	3154	3396	3639
	500	585	732	878	1024	1170	1317	1463	1609	1756	1902	2048	2195	2341	2487	2633	2926	3219	3511	3804	4096	4389
	600	683	854	1024	1195	1366	1536	1707	1878	2048	2219	2390	2561	2731	2902	3073	3414	3755	4097	4438	4780	5121
	750	807	1009	1211	1413	1614	1816	2018	2220	2422	2623	2825	3027	3229	3431	3632	4036	4440	4843	5247	5650	6054
	900	928	1161	1393	1625	1857	2089	2321	2553	2785	3017	3249	3482	3714	3946	4178	4642	5106	5570	6035	6499	6963
K_m	300	2,55126	3,18907	3,82688	4,46470	5,10251	5,74033	6,37814	7,01595	7,65377	8,29158	8,92940	9,56721	10,20502	10,84284	11,48065	12,75628	14,03191	15,30754	16,58316	17,85879	19,13442
	400	3,12871	3,91089	4,69307	5,47525	6,25742	7,03960	7,82178	8,60396	9,38614	10,16831	10,95049	11,73267	12,51485	13,29703	14,07920	15,64356	17,20792	18,77227	20,33663	21,90098	23,46534
	500	3,63770	4,54713	5,45656	6,36598	7,27541	8,18483	9,09426	10,00369	10,91311	11,82254	12,73196	13,64139	14,55082	15,46024	16,36967	18,18852	20,00737	21,82622	23,64508	25,46393	27,28278
	600	4,02892	5,03616	6,04339	7,05062	8,05785	9,06508	10,07231	11,07954	12,08677	13,09400	14,10123	15,10847	16,11570	17,12293	18,13016	20,14462	22,15908	24,17354	26,18801	28,20247	30,21693
	750	4,72810	5,91012	7,09214	8,27417	9,45619	10,63822	11,82024	13,00226	14,18429	15,36631	16,54834	17,73036	18,91238	20,09441	21,27643	23,64048	26,00453	28,36858	30,73262	33,09667	35,46072
	900	5,39676	6,74596	8,09515	9,44434	10,79353	12,14272	13,49191	14,84110	16,19029	17,53948	18,88867	20,23787	21,58706	22,93625	24,28544	26,98382	29,68220	32,38058	35,07897	37,77735	40,47573
n	300	1,2800	1,2800	1,2800	1,2800	1,2800	1,2800	1,2800	1,2800	1,2800	1,2800	1,2800	1,2800	1,2800	1,2800	1,2800	1,2800	1,2800	1,2800	1,2800	1,2800	1,2800
	400	1,2894	1,2894	1,2894	1,2894	1,2894	1,2894	1,2894	1,2894	1,2894	1,2894	1,2894	1,2894	1,2894	1,2894	1,2894	1,2894	1,2894	1,2894	1,2894	1,2894	1,2894
	500	1,2988	1,2988	1,2988	1,2988	1,2988	1,2988	1,2988	1,2988	1,2988	1,2988	1,2988	1,2988	1,2988	1,2988	1,2988	1,2988	1,2988	1,2988	1,2988	1,2988	1,2988
	600	1,3120	1,3120	1,3120	1,3120	1,3120	1,3120	1,3120	1,3120	1,3120	1,3120	1,3120	1,3120	1,3120	1,3120	1,3120	1,3120	1,3120	1,3120	1,3120	1,3120	1,3120
	750	1,3140	1,3140	1,3140	1,3140	1,3140	1,3140	1,3140	1,3140	1,3140	1,3140	1,3140	1,3140	1,3140	1,3140	1,3140	1,3140	1,3140	1,3140	1,3140	1,3140	1,3140
	900	1,3159	1,3159	1,3159	1,3159	1,3159	1,3159	1,3159	1,3159	1,3159	1,3159	1,3159	1,3159	1,3159	1,3159	1,3159	1,3159	1,3159	1,3159	1,3159	1,3159	1,3159

Tabelle 9. Wärmeleistung und Kennlinie Kurve für Type 33, Flat

TYPE 33 Flat ($\phi=K_m \times \Delta T^n$)	Rad. Height H(mm)	THERMAL OUTPUT TABLE																				
		Radiator Length, L(mm)																				
		400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	2000	2200	2400	2600	2800	3000
Rated Thermal Output, ΔT: 30 Φ_{30} [Watt]	300	291	364	437	510	582	655	728	801	874	946	1019	1092	1165	1238	1310	1456	1602	1747	1893	2038	2184
	400	367	459	550	642	734	825	917	1009	1100	1192	1284	1376	1467	1559	1651	1834	2017	2201	2384	2568	2751
	500	434	543	652	760	869	977	1086	1195	1303	1412	1520	1629	1738	1846	1955	2172	2389	2606	2824	3041	3258
	600	494	618	741	865	988	1112	1235	1359	1482	1606	1729	1853	1976	2100	2223	2470	2717	2964	3211	3458	3705
	750	571	714	856	999	1142	1284	1427	1570	1712	1855	1998	2141	2283	2426	2569	2854	3139	3425	3710	3996	4281
	900	634	792	950	1109	1267	1426	1584	1742	1901	2059	2218	2376	2534	2693	2851	3168	3485	3802	4118	4435	4752
Rated Thermal Output, ΔT: 50 Φ_{50} [Watt]	300	561	702	842	982	1122	1263	1403	1543	1684	1824	1964	2105	2245	2385	2525	2806	3087	3367	3648	3928	4209
	400	710	888	1065	1243	1420	1598	1775	1953	2130	2308	2485	2663	2840	3018	3195	3550	3905	4260	4615	4970	5325
	500	844	1055	1266	1477	1688	1899	2110	2321	2532	2743	2954	3165	3376	3587	3798	4220	4642	5064	5486	5908	6330
	600	964	1205	1446	1687	1928	2169	2410	2651	2892	3133	3374	3615	3856	4097	4338	4820	5302	5784	6266	6748	7230
	750	1120	1401	1681	1961	2241	2521	2801	3081	3361	3641	3921	4202	4482	4762	5042	5602	6162	6722	7283	7843	8403
	900	1251	1564	1877	2190	2502	2815	3128	3441	3754	4066	4379	4692	5005	5318	5630	6256	6882	7507	8133	8758	9384
K_m	300	3,67648	4,59560	5,51471	6,43383	7,35295	8,27207	9,19119	10,11031	11,02943	11,94855	12,86767	13,78679	14,70590	15,62502	16,54414	18,38238	20,22062	22,05886	23,89709	25,73533	27,57357
	400	4,51326	5,64157	6,76988	7,89820	9,02651	10,15483	11,28314	12,41145	13,53977	14,66808	15,79640	16,92471	18,05302	19,18134	20,30965	22,56628	24,82291	27,07954	29,33616	31,59279	33,84942
	500	5,20993	6,51242	7,81490	9,11738	10,41986	11,72235	13,02483	14,32731	15,62980	16,93228	18,23476	19,53725	20,83973	22,14221	23,44469	26,04966	28,65463	31,25959	33,86456	36,46952	39,07449
	600	5,76733	7,20916	8,65099	10,09282	11,53466	12,97649	14,41832	15,86015	17,30198	18,74382	20,18565	21,62748	23,06931	24,51114	25,95298	28,83664	31,72030	34,60397	37,48763	40,37130	43,25496
	750	6,39563	7,99454	9,59344	11,19235	12,79126	14,39016	15,98907	17,58798	19,18688	20,78579	22,38470	23,98361	25,58251	27,18142	28,78033	31,97814	35,17595	38,37377	41,57158	44,76940	47,96721
	900	6,81474	8,51843	10,22211	11,92580	13,62948	15,33317	17,03685	18,74054	20,44422	22,14791	23,85159	25,55528	27,25896	28,96265	30,66633	34,07370	37,48107	40,88844	44,29581	47,70318	51,11055
n	300	1,2853	1,2853	1,2853	1,2853	1,2853	1,2853	1,2853	1,2853	1,2853	1,2853	1,2853	1,2853	1,2853	1,2853	1,2853	1,2853	1,2853	1,2853	1,2853	1,2853	1,2853
	400	1,2930	1,2930	1,2930	1,2930	1,2930	1,2930	1,2930	1,2930	1,2930	1,2930	1,2930	1,2930	1,2930	1,2930	1,2930	1,2930	1,2930	1,2930	1,2930	1,2930	1,2930
	500	1,3005	1,3005	1,3005	1,3005	1,3005	1,3005	1,3005	1,3005	1,3005	1,3005	1,3005	1,3005	1,3005	1,3005	1,3005	1,3005	1,3005	1,3005	1,3005	1,3005	1,3005
	600	1,3085	1,3085	1,3085	1,3085	1,3085	1,3085	1,3085	1,3085	1,3085	1,3085	1,3085	1,3085	1,3085	1,3085	1,3085	1,3085	1,3085	1,3085	1,3085	1,3085	1,3085
	750	1,3205	1,3205	1,3205	1,3205	1,3205	1,3205	1,3205	1,3205	1,3205	1,3205	1,3205	1,3205	1,3205	1,3205	1,3205	1,3205	1,3205	1,3205	1,3205	1,3205	1,3205
	900	1,3325	1,3325	1,3325	1,3325	1,3325	1,3325	1,3325	1,3325	1,3325	1,3325	1,3325	1,3325	1,3325	1,3325	1,3325	1,3325	1,3325	1,3325	1,3325	1,3325	1,3325

Tabelle 10. Wärmeleistung und Kennlinie Kurve für Type 20, Vertical Flat

TYPE 20 Vertical Flat ($\phi=K_m \times \Delta T^n$)	Rad. Height H(mm)	THERMAL OUTPUT TABLE	
		Radiator Length, L(mm)	
		1800	2000
Rated Thermal Output, ΔT: 30 ϕ_{30} [Watt]	300	362	417
	400	441	496
	500	520	576
	600	598	656
Rated Thermal Output, ΔT: 50 ϕ_{50} [Watt]	300	723	823
	400	882	976
	500	1041	1130
	600	1201	1283
K_m	300	3,65713	4,49966
	400	4,38707	5,47626
	500	5,09003	6,50076
	600	5,76745	7,57321
n	300	1,3513	1,3314
	400	1,3557	1,3249
	500	1,3602	1,3184
	600	1,3646	1,3119

Tabelle 11. Wärmeleistung und Kennlinie Kurve für Type 11, Mid Connection

TYPE 11 Mid Connection ($\phi = K_m \times \Delta T^n$)	Rad. Height H(mm)	THERMAL OUTPUT TABLE																				
		Radiator Length, L(mm)																				
		400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	2000	2200	2400	2600	2800	3000
Rated Thermal Output, ΔT: 30 ϕ_{30} [Watt]	300	114	143	172	200	229	257	286	315	343	372	400	429	458	486	515	572	629	686	744	801	858
	400	144	180	216	252	288	324	360	396	432	468	504	540	576	612	648	720	792	864	936	1008	1080
	500	169	212	254	296	338	381	423	465	508	550	592	635	677	719	761	846	931	1015	1100	1184	1269
	600	196	246	295	344	393	442	491	540	589	638	687	737	786	835	884	982	1080	1178	1277	1375	1473
	900	273	342	410	478	546	615	683	751	820	888	956	1025	1093	1161	1229	1366	1503	1639	1776	1912	2049
Rated Thermal Output, ΔT: 50 ϕ_{50} [Watt]	300	217	272	326	380	434	489	543	597	652	706	760	815	869	923	977	1086	1195	1303	1412	1520	1629
	400	276	346	415	484	553	622	691	760	829	898	967	1037	1106	1175	1244	1382	1520	1658	1797	1935	2073
	500	332	416	499	582	665	748	831	914	997	1080	1163	1247	1330	1413	1496	1662	1828	1994	2161	2327	2493
	600	386	483	579	676	772	869	965	1062	1158	1255	1351	1448	1544	1641	1737	1930	2123	2316	2509	2702	2895
	900	537	671	805	939	1074	1208	1342	1476	1610	1745	1879	2013	2147	2281	2416	2684	2952	3221	3489	3758	4026
K_m	300	1,61406	2,01758	2,42110	2,82461	3,22813	3,63164	4,03516	4,43868	4,84219	5,24571	5,64922	6,05274	6,45626	6,85977	7,26329	8,07032	8,87735	9,68438	10,49142	11,29845	12,10548
	400	1,87544	2,34431	2,81317	3,28203	3,75089	4,21975	4,68861	5,15747	5,62633	6,09519	6,56405	7,03292	7,50178	7,97064	8,43950	9,37722	10,31494	11,25266	12,19039	13,12811	14,06583
	500	1,88600	2,35751	2,82901	3,30051	3,77201	4,24351	4,71501	5,18651	5,65801	6,12951	6,60101	7,07252	7,54402	8,01552	8,48702	9,43002	10,37302	11,31602	12,25903	13,20203	14,14503
	600	2,19096	2,73870	3,28644	3,83418	4,38192	4,92966	5,47740	6,02514	6,57288	7,12062	7,66836	8,21610	8,76384	9,31158	9,85932	10,95480	12,05028	13,14576	14,24124	15,33672	16,43220
	900	3,04498	3,80622	4,56746	5,32871	6,08995	6,85120	7,61244	8,37368	9,13493	9,89617	10,65742	11,41866	12,17990	12,94115	13,70239	15,22488	16,74737	18,26986	19,79234	21,31483	22,83732
n	300	1,2532	1,2532	1,2532	1,2532	1,2532	1,2532	1,2532	1,2532	1,2532	1,2532	1,2532	1,2532	1,2532	1,2532	1,2532	1,2532	1,2532	1,2532	1,2532	1,2532	1,2532
	400	1,2762	1,2762	1,2762	1,2762	1,2762	1,2762	1,2762	1,2762	1,2762	1,2762	1,2762	1,2762	1,2762	1,2762	1,2762	1,2762	1,2762	1,2762	1,2762	1,2762	1,2762
	500	1,3220	1,3220	1,3220	1,3220	1,3220	1,3220	1,3220	1,3220	1,3220	1,3220	1,3220	1,3220	1,3220	1,3220	1,3220	1,3220	1,3220	1,3220	1,3220	1,3220	1,3220
	600	1,3220	1,3220	1,3220	1,3220	1,3220	1,3220	1,3220	1,3220	1,3220	1,3220	1,3220	1,3220	1,3220	1,3220	1,3220	1,3220	1,3220	1,3220	1,3220	1,3220	1,3220
	900	1,3222	1,3222	1,3222	1,3222	1,3222	1,3222	1,3222	1,3222	1,3222	1,3222	1,3222	1,3222	1,3222	1,3222	1,3222	1,3222	1,3222	1,3222	1,3222	1,3222	1,3222

Tabelle 12. Wärmeleistung und Kennlinie Kurve für Type 21 (Thin), Mid Connection

TYPE 21 (Thin) Mid Connection ($\phi=K_m \times \Delta T^n$)	Rad. Height H(mm)	THERMAL OUTPUT TABLE																				
		Radiator Length, L(mm)																				
		400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	2000	2200	2400	2600	2800	3000
Rated Thermal Output, ΔT: 30 ϕ_{30} [Watt]	300	159	199	238	278	318	357	397	437	476	516	556	596	635	675	715	794	873	953	1032	1112	1191
	400	204	255	306	357	408	459	510	561	612	663	714	765	816	867	918	1020	1122	1224	1326	1428	1530
	500	245	306	367	428	490	551	612	673	734	796	857	918	979	1040	1102	1224	1346	1469	1591	1714	1836
	600	281	351	421	491	562	632	702	772	842	913	983	1053	1123	1193	1264	1404	1544	1685	1825	1966	2106
	900	365	457	548	639	730	822	913	1004	1096	1187	1278	1370	1461	1552	1643	1826	2009	2191	2374	2556	2739
Rated Thermal Output, ΔT: 50 ϕ_{50} [Watt]	300	311	389	466	544	622	699	777	855	932	1010	1088	1166	1243	1321	1399	1554	1709	1865	2020	2176	2331
	400	399	499	599	699	798	898	998	1098	1198	1297	1397	1497	1597	1697	1796	1996	2196	2395	2595	2794	2994
	500	479	599	719	839	958	1078	1198	1318	1438	1557	1677	1797	1917	2037	2156	2396	2636	2875	3115	3354	3594
	600	551	689	827	965	1102	1240	1378	1516	1654	1791	1929	2067	2205	2343	2480	2756	3032	3307	3583	3858	4134
	900	724	905	1086	1267	1448	1629	1810	1991	2172	2353	2534	2715	2896	3077	3258	3620	3982	4344	4706	5068	5430
K_m	300	1,82226	2,27782	2,73338	3,18895	3,64451	4,10008	4,55564	5,01120	5,46677	5,92233	6,37790	6,83346	7,28902	7,74459	8,20015	9,11128	10,02241	10,93354	11,84466	12,75579	13,66692
	400	2,31801	2,89751	3,47701	4,05651	4,63602	5,21552	5,79502	6,37452	6,95402	7,53353	8,11303	8,69253	9,27203	9,85153	10,43104	11,59004	12,74904	13,90805	15,06705	16,22606	17,38506
	500	2,80200	3,50250	4,20300	4,90350	5,60400	6,30450	7,00500	7,70550	8,40600	9,10650	9,80700	10,50750	11,20800	11,90850	12,60900	14,01000	15,41100	16,81200	18,21300	19,61400	21,01500
	600	3,14120	3,92650	4,71180	5,49710	6,28240	7,06770	7,85300	8,63830	9,42360	10,20890	10,99420	11,77950	12,56480	13,35010	14,13540	15,70600	17,27660	18,84720	20,41780	21,98840	23,55900
	900	3,81792	4,77240	5,72687	6,68135	7,63583	8,59031	9,54479	10,49927	11,45375	12,40823	13,36271	14,31719	15,27166	16,22614	17,18062	19,08958	20,99854	22,90750	24,81645	26,72541	28,63437
n	300	1,3137	1,3137	1,3137	1,3137	1,3137	1,3137	1,3137	1,3137	1,3137	1,3137	1,3137	1,3137	1,3137	1,3137	1,3137	1,3137	1,3137	1,3137	1,3137	1,3137	1,3137
	400	1,3162	1,3162	1,3162	1,3162	1,3162	1,3162	1,3162	1,3162	1,3162	1,3162	1,3162	1,3162	1,3162	1,3162	1,3162	1,3162	1,3162	1,3162	1,3162	1,3162	1,3162
	500	1,3144	1,3144	1,3144	1,3144	1,3144	1,3144	1,3144	1,3144	1,3144	1,3144	1,3144	1,3144	1,3144	1,3144	1,3144	1,3144	1,3144	1,3144	1,3144	1,3144	1,3144
	600	1,3210	1,3210	1,3210	1,3210	1,3210	1,3210	1,3210	1,3210	1,3210	1,3210	1,3210	1,3210	1,3210	1,3210	1,3210	1,3210	1,3210	1,3210	1,3210	1,3210	1,3210
	900	1,3408	1,3408	1,3408	1,3408	1,3408	1,3408	1,3408	1,3408	1,3408	1,3408	1,3408	1,3408	1,3408	1,3408	1,3408	1,3408	1,3408	1,3408	1,3408	1,3408	1,3408

Tabelle 13. Wärmeleistung und Kennlinie Kurve für Type 22, Mid Connection

TYPE 22 Mid Connection ($\phi = K_m \times \Delta T^n$)	Rad. Height H(mm)	THERMAL OUTPUT TABLE																				
		Radiator Length, L(mm)																				
		400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	2000	2200	2400	2600	2800	3000
Rated Thermal Output, ΔT: 30 ϕ_{30} [Watt]	300	217	271	325	379	434	488	542	596	650	705	759	813	867	921	976	1084	1192	1301	1409	1518	1626
	400	269	337	404	471	538	606	673	740	808	875	942	1010	1077	1144	1211	1346	1481	1615	1750	1884	2019
	500	318	398	477	557	636	716	795	875	954	1034	1113	1193	1272	1352	1431	1590	1749	1908	2067	2226	2385
	600	366	458	550	641	733	824	916	1008	1099	1191	1282	1374	1466	1557	1649	1832	2015	2198	2382	2565	2748
	900	504	630	756	882	1008	1134	1260	1386	1512	1638	1764	1890	2016	2142	2268	2520	2772	3024	3276	3528	3780
Rated Thermal Output, ΔT: 50 ϕ_{50} [Watt]	300	417	521	625	729	834	938	1042	1146	1250	1355	1459	1563	1667	1771	1876	2084	2292	2501	2709	2918	3126
	400	521	651	781	911	1042	1172	1302	1432	1562	1693	1823	1953	2083	2213	2344	2604	2864	3125	3385	3646	3906
	500	620	776	931	1086	1241	1396	1551	1706	1861	2016	2171	2327	2482	2637	2792	3102	3412	3722	4033	4343	4653
	600	717	896	1075	1254	1434	1613	1792	1971	2150	2330	2509	2688	2867	3046	3226	3584	3942	4301	4659	5018	5376
	900	996	1245	1493	1742	1991	2240	2489	2738	2987	3236	3485	3734	3982	4231	4480	4978	5476	5974	6471	6969	7467
K_m	300	2,78218	3,47772	4,17326	4,86881	5,56435	6,25990	6,95544	7,65098	8,34653	9,04207	9,73762	10,43316	11,12870	11,82425	12,51979	13,91088	15,30197	16,69306	18,08414	19,47523	20,86632
	400	3,32803	4,16004	4,99205	5,82406	6,65606	7,48807	8,32008	9,15209	9,98410	10,81610	11,64811	12,48012	13,31213	14,14414	14,97614	16,64016	18,30418	19,96819	21,63221	23,29622	24,96024
	500	3,72309	4,65387	5,58464	6,51541	7,44618	8,37696	9,30773	10,23850	11,16928	12,10005	13,03082	13,96160	14,89237	15,82314	16,75391	18,61546	20,47701	22,33855	24,20010	26,06164	27,92319
	600	4,19664	5,24581	6,29497	7,34413	8,39329	9,44245	10,49161	11,54077	12,58993	13,63909	14,68825	15,73742	16,78658	17,83574	18,88490	20,98322	23,08154	25,17986	27,27819	29,37651	31,47483
	900	5,40834	6,76042	8,11250	9,46459	10,81667	12,16876	13,52084	14,87292	16,22501	17,57709	18,92918	20,28126	21,63334	22,98543	24,33751	27,04168	29,74585	32,45002	35,15418	37,85835	40,56252
n	300	1,2804	1,2804	1,2804	1,2804	1,2804	1,2804	1,2804	1,2804	1,2804	1,2804	1,2804	1,2804	1,2804	1,2804	1,2804	1,2804	1,2804	1,2804	1,2804	1,2804	1,2804
	400	1,2917	1,2917	1,2917	1,2917	1,2917	1,2917	1,2917	1,2917	1,2917	1,2917	1,2917	1,2917	1,2917	1,2917	1,2917	1,2917	1,2917	1,2917	1,2917	1,2917	1,2917
	500	1,3077	1,3077	1,3077	1,3077	1,3077	1,3077	1,3077	1,3077	1,3077	1,3077	1,3077	1,3077	1,3077	1,3077	1,3077	1,3077	1,3077	1,3077	1,3077	1,3077	1,3077
	600	1,3141	1,3141	1,3141	1,3141	1,3141	1,3141	1,3141	1,3141	1,3141	1,3141	1,3141	1,3141	1,3141	1,3141	1,3141	1,3141	1,3141	1,3141	1,3141	1,3141	1,3141
	900	1,3332	1,3332	1,3332	1,3332	1,3332	1,3332	1,3332	1,3332	1,3332	1,3332	1,3332	1,3332	1,3332	1,3332	1,3332	1,3332	1,3332	1,3332	1,3332	1,3332	1,3332

Tabelle 14. Wärmeleistung und Kennlinie Kurve für Type 33, Mid Connection

TYPE 33 Mid Connection ($\phi = K_m \times \Delta T^n$)	Rad. Height H(mm)	THERMAL OUTPUT TABLE																				
		Radiator Length, L(mm)																				
		400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	2000	2200	2400	2600	2800	3000
Rated Thermal Output, ΔT: 30 ϕ_{30} [Watt]	300	304	380	455	531	607	683	759	835	911	987	1063	1139	1214	1290	1366	1518	1670	1822	1973	2125	2277
	400	386	482	578	675	771	868	964	1060	1157	1253	1350	1446	1542	1639	1735	1928	2121	2314	2506	2699	2892
	500	460	576	691	806	921	1036	1151	1266	1381	1496	1611	1727	1842	1957	2072	2302	2532	2762	2993	3223	3453
	600	530	663	796	928	1061	1193	1326	1459	1591	1724	1856	1989	2122	2254	2387	2652	2917	3182	3448	3713	3978
	900	710	888	1066	1243	1421	1598	1776	1954	2131	2309	2486	2664	2842	3019	3197	3552	3907	4262	4618	4973	5328
Rated Thermal Output, ΔT: 50 ϕ_{50} [Watt]	300	590	738	885	1033	1180	1328	1475	1623	1770	1918	2065	2213	2360	2508	2655	2950	3245	3540	3835	4130	4425
	400	752	940	1128	1316	1504	1692	1880	2068	2256	2444	2632	2820	3008	3196	3384	3760	4136	4512	4888	5264	5640
	500	903	1129	1354	1580	1806	2031	2257	2483	2708	2934	3160	3386	3611	3837	4063	4514	4965	5417	5868	6320	6771
	600	1043	1304	1564	1825	2086	2346	2607	2868	3128	3389	3650	3911	4171	4432	4693	5214	5735	6257	6778	7300	7821
	900	1410	1762	2114	2467	2819	3172	3524	3876	4229	4581	4934	5286	5638	5991	6343	7048	7753	8458	9162	9867	10572
K_m	300	3,64640	4,55800	5,46959	6,38119	7,29279	8,20439	9,11599	10,02759	10,93919	11,85079	12,76239	13,67399	14,58558	15,49718	16,40878	18,23198	20,05518	21,87838	23,70157	25,52477	27,34797
	400	4,50343	5,62929	6,75514	7,88100	9,00686	10,13271	11,25857	12,38443	13,51028	14,63614	15,76200	16,88786	18,01371	19,13957	20,26543	22,51714	24,76885	27,02057	29,27228	31,52400	33,77571
	500	5,18047	6,47559	7,77070	9,06582	10,36094	11,65605	12,95117	14,24629	15,54140	16,83652	18,13164	19,42676	20,72187	22,01699	23,31211	25,90234	28,49257	31,08281	33,67304	36,26328	38,85351
	600	5,85864	7,32330	8,78796	10,25262	11,71728	13,18194	14,64660	16,11126	17,57592	19,04058	20,50524	21,96990	23,43456	24,89922	26,36388	29,29320	32,22252	35,15184	38,08116	41,01048	43,93980
	900	7,42210	9,27763	11,13316	12,98868	14,84421	16,69973	18,55526	20,41079	22,26631	24,12184	25,97736	27,83289	29,68842	31,54394	33,39947	37,11052	40,82157	44,53262	48,24368	51,95473	55,66578
n	300	1,3001	1,3001	1,3001	1,3001	1,3001	1,3001	1,3001	1,3001	1,3001	1,3001	1,3001	1,3001	1,3001	1,3001	1,3001	1,3001	1,3001	1,3001	1,3001	1,3001	1,3001
	400	1,3083	1,3083	1,3083	1,3083	1,3083	1,3083	1,3083	1,3083	1,3083	1,3083	1,3083	1,3083	1,3083	1,3083	1,3083	1,3083	1,3083	1,3083	1,3083	1,3083	1,3083
	500	1,3192	1,3192	1,3192	1,3192	1,3192	1,3192	1,3192	1,3192	1,3192	1,3192	1,3192	1,3192	1,3192	1,3192	1,3192	1,3192	1,3192	1,3192	1,3192	1,3192	1,3192
	600	1,3247	1,3247	1,3247	1,3247	1,3247	1,3247	1,3247	1,3247	1,3247	1,3247	1,3247	1,3247	1,3247	1,3247	1,3247	1,3247	1,3247	1,3247	1,3247	1,3247	1,3247
	900	1,3411	1,3411	1,3411	1,3411	1,3411	1,3411	1,3411	1,3411	1,3411	1,3411	1,3411	1,3411	1,3411	1,3411	1,3411	1,3411	1,3411	1,3411	1,3411	1,3411	1,3411

Tabelle 15. Wärmeleistung und Kennlinie Kurve für Type 20 Vertical, Mid Connection

TYPE 20 Vertical Mid Connection ($\phi = K_m \times \Delta T^n$)	Rad. Height H(mm)	THERMAL OUTPUT TABLE		
		Radiator Length, L(mm)		
		1600	1800	2000
Rated Thermal Output, ΔT: 30 Φ_{30} [Watt]	300	415	465	515
	400	522	582	646
	500	624	694	769
	600	722	801	887
Rated Thermal Output, ΔT: 50 Φ_{50} [Watt]	300	818	915	1011
	400	1024	1144	1265
	500	1218	1361	1505
	600	1403	1568	1734
K_m	300	15,08702	17,07253	19,23712
	400	14,67265	16,22568	18,28243
	500	14,46248	15,65179	17,62233
	600	14,38033	15,23034	17,13515
n	300	1,3285	1,3255	1,3205
	400	1,3195	1,3221	1,3173
	500	1,3105	1,3186	1,3140
	600	1,3015	1,3152	1,3108